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OIKE

RAW SEQUENCE LISTING

DATE: 07/26/2001

PATENT APPLICATION: US/09/905,114

TIME: 09:32:08

Input Set : A:\PTO_VSK.txt

Output Set: N:\CRF3\07262001\I905114.raw

ENTERED

3 <110> APPLICANT: ZHANG, HUANMIN
 4 AX, ROY L
 5 BELLIN, MARY E
 7 <120> TITLE OF INVENTION: ISOLATED POLYNUCLEOTIDE SEQUENCES ENCODING A FERTILITY
 ASSOCIATED ANTIGEN
 9 <130> FILE REFERENCE: 210707US20
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/905,114
 C--> 11 <141> CURRENT FILING DATE: 2001-07-14
 11 <150> PRIOR APPLICATION NUMBER: US 60/218,140
 12 <151> PRIOR FILING DATE: 2000-07-14
 14 <160> NUMBER OF SEQ ID NOS: 9
 16 <170> SOFTWARE: PatentIn version 3.1
 18 <210> SEQ ID NO: 1
 19 <211> LENGTH: 592
 20 <212> TYPE: DNA
 21 <213> ORGANISM: Bos sp.
 23 <220> FEATURE:
 24 <221> NAME/KEY: CDS
 25 <222> LOCATION: (1)..(591)
 26 <223> OTHER INFORMATION:
 29 <400> SEQUENCE: 1
 30 gag aag cta aac gga aat tca aga aaa ggc ata aca tac aac tat gtg 48
 31 Glu Lys Leu Asn Gly Asn Ser Arg Lys Gly Ile Thr Tyr Asn Tyr Val
 32 1 5 10 15
 34 att agc tct cgc ctt gga aga aac aca tat aaa gaa cag tat gcc ttt 96
 35 Ile Ser Ser Arg Leu Gly Arg Asn Thr Tyr Lys Glu Gln Tyr Ala Phe
 36 20 25 30
 38 ctc tat aaa gaa aag cta gtg tct gta aaa caa agc tac ctc tac cac 144
 39 Leu Tyr Lys Glu Lys Leu Val Ser Val Lys Gln Ser Tyr Leu Tyr His
 40 35 40 45
 42 gac tat cag gct gga gac gca gat gtg ttt tcc agg gaa ccc ttt gtg 192
 43 Asp Tyr Gln Ala Gly Asp Ala Asp Val Phe Ser Arg Glu Pro Phe Val
 44 50 55 60
 46 gtc tgg ttc cag tca ccc tac acc gct gtc aag gac ttc gtg att gtc 240
 47 Val Trp Phe Gln Ser Pro Tyr Thr Ala Val Lys Asp Phe Val Ile Val
 48 65 70 75 80
 50 ccc ctg cac acc acc cct gag aca tcc gtt aga gag att gat gag ctg 288
 51 Pro Leu His Thr Thr Pro Glu Thr Ser Val Arg Glu Ile Asp Glu Leu
 52 85 90 95
 54 gct gat gtc tac aca gat gtg aaa cgt cgc tgg aat gca gag aat ttc 336
 55 Ala Asp Val Tyr Thr Asp Val Lys Arg Arg Trp Asn Ala Glu Asn Phe
 56 100 105 110
 58 att ttc atg ggt gac ttc aat gct ggc tgc agc tac gtc ccc aag aag 384
 59 Ile Phe Met Gly Asp Phe Asn Ala Gly Cys Ser Tyr Val Pro Lys Lys
 60 115 120 125
 62 gcc tgg aag gac atc cgc ctg agg acg gac ccc aag ttc gtt tgg ctg 432
 63 Ala Trp Lys Asp Ile Arg Leu Arg Thr Asp Pro Lys Phe Val Trp Leu
 64 130 135 140

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66 atc ggg gac caa gag gac acc acg gtc aag aag agc aca aac tgc gcc      480
67 Ile Gly Asp Gln Glu Asp Thr Thr Val Lys Lys Ser Thr Asn Cys Ala
68 145                      150                      155                      160
70 tat gac agg atc gtg ctt aga gga caa aat att gtc aac tct ggt ggt      528
71 Tyr Asp Arg Ile Val Leu Arg Gly Gln Asn Ile Val Asn Ser Gly Gly
72                      165                      170                      175
74 cct caa tca aac ctc gtc ttt gat ttc cag aaa gct tac agg ttg tct      576
75 Pro Gln Ser Asn Leu Val Phe Asp Phe Gln Lys Ala Tyr Arg Leu Ser
76                      180                      185                      190
78 gaa tcg aag gcc ctg g      592
79 Glu Ser Lys Ala Leu
80                      195

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83 <210> SEQ ID NO: 2

84 <211> LENGTH: 197

85 <212> TYPE: PRT

86 <213> ORGANISM: Bos sp.

88 <400> SEQUENCE: 2

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90 Glu Lys Leu Asn Gly Asn Ser Arg Lys Gly Ile Thr Tyr Asn Tyr Val
91 1                      5                      10                      15
94 Ile Ser Ser Arg Leu Gly Arg Asn Thr Tyr Lys Glu Gln Tyr Ala Phe
95                      20                      25                      30
98 Leu Tyr Lys Glu Lys Leu Val Ser Val Lys Gln Ser Tyr Leu Tyr His
99                      35                      40                      45
102 Asp Tyr Gln Ala Gly Asp Ala Asp Val Phe Ser Arg Glu Pro Phe Val
103 50                      55                      60
106 Val Trp Phe Gln Ser Pro Tyr Thr Ala Val Lys Asp Phe Val Ile Val
107 65                      70                      75                      80
110 Pro Leu His Thr Thr Pro Glu Thr Ser Val Arg Glu Ile Asp Glu Leu
111                      85                      90                      95
114 Ala Asp Val Tyr Thr Asp Val Lys Arg Arg Trp Asn Ala Glu Asn Phe
115                      100                      105                      110
118 Ile Phe Met Gly Asp Phe Asn Ala Gly Cys Ser Tyr Val Pro Lys Lys
119                      115                      120                      125
122 Ala Trp Lys Asp Ile Arg Leu Arg Thr Asp Pro Lys Phe Val Trp Leu
123 130                      135                      140
126 Ile Gly Asp Gln Glu Asp Thr Thr Val Lys Lys Ser Thr Asn Cys Ala
127 145                      150                      155                      160
130 Tyr Asp Arg Ile Val Leu Arg Gly Gln Asn Ile Val Asn Ser Gly Gly
131                      165                      170                      175
134 Pro Gln Ser Asn Leu Val Phe Asp Phe Gln Lys Ala Tyr Arg Leu Ser
135                      180                      185                      190
138 Glu Ser Lys Ala Leu
139                      195

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142 <210> SEQ ID NO: 3

143 <211> LENGTH: 671

144 <212> TYPE: DNA

145 <213> ORGANISM: Bos sp.

147 <400> SEQUENCE: 3

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148 acaacaggat ctgccccata ctgatggaga agctaaacgg aaattcaaga aaaggcataa      60

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150 catacaacta tgtgattagc tctgccttg gaagaaacac atataaagaa cagtatgcct 120
152 ttctctataa agaaaagcta gtgtctgtaa aacaaagcta cctctaccac gactatcagg 180
154 ctggagacgc agatgtgttt tccagggaac cctttgtggt ctgggtccag tcaccctaca 240
156 cgcgtgtcaa ggacttcgtg attgtcccc tgacacaccac ccctgagaca tccgttagag 300
158 agattgatga gctggctgat gtctacacag atgtgaaacg tcgctggaat gcagagaatt 360
160 tcattttcat gggtgacttc aatgotggct gcagctacgt ccccaagaag gcctggaagg 420
162 acatccgcct gaggaacggac cccaagtctg tttggctgat cggggaccaa gaggacacca 480
164 cgggtcaagaa gagcacaacac tgcgcctatg acaggatcgt gcttagagga caaaatattg 540
166 tcaactctgg tggctctcaa tcaaacctcg tctttgattt ccagaaagct tacaggttgt 600
168 ctgaatcgaa ggccctggat gtcagcgacc actttccagt tcatcatcat catcatcatg 660
170 aagaacatg a 671
173 <210> SEQ ID NO: 4
174 <211> LENGTH: 21
175 <212> TYPE: DNA
176 <213> ORGANISM: Artificial Sequence
178 <220> FEATURE:
179 <223> OTHER INFORMATION: synthetic DNA
181 <400> SEQUENCE: 4
182 cgtgaggagc ttcggcgaga g 21
185 <210> SEQ ID NO: 5
186 <211> LENGTH: 26
187 <212> TYPE: PRT
188 <213> ORGANISM: Bos sp.
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (4)..(4)
193 <223> OTHER INFORMATION: Xaa is any amino acid
196 <400> SEQUENCE: 5
198 Leu Lys Ile Xaa Ser Phe Asn Val Arg Ser Phe Gly Glu Ser Lys Lys
199 1 5 10 15
202 Ala Gly Phe Asn Ala Met Arg Val Ile Val
203 20 25
206 <210> SEQ ID NO: 6
207 <211> LENGTH: 26
208 <212> TYPE: DNA
209 <213> ORGANISM: Artificial Sequence
211 <220> FEATURE:
212 <223> OTHER INFORMATION: synthetic DNA
214 <400> SEQUENCE: 6
215 acaacaggat ctgccccata ctgatg 26
218 <210> SEQ ID NO: 7
219 <211> LENGTH: 25
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial Sequence
223 <220> FEATURE:
224 <223> OTHER INFORMATION: synthetic DNA
226 <400> SEQUENCE: 7
227 tcaactggaa agtggctcgt gacat 25
230 <210> SEQ ID NO: 8

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231 <211> LENGTH: 27
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <223> OTHER INFORMATION: synthetic DNA
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242 <210> SEQ ID NO: 9
243 <211> LENGTH: 57
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial Sequence
247 <220> FEATURE:
248 <223> OTHER INFORMATION: synthetic DNA
250 <400> SEQUENCE: 9
251 tcatggttct tcatgatgat gatgatgatg aactggaaag tggtcgctga catccag 57

VERIFICATION SUMMARY

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:198 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5